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# **Calculus Chapter 5**

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## Area Between Curves



Section 5.1 in Stewart's Calculus.

#### **Preclass Learning Objectives:**

 Total area between functions f and g is calculated by integrating the absolute value of the difference of f and g.

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### Volume

Section 5.2/5.3 in Stewart's Calculus.

#### **Preclass Learning Objectives:**

- Formula for calculating volume using cylindrical shells.
- Differences between the washer and shell methods.



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# The Average Value of a Function



Section 5.5 in Stewart's Calculus.

#### **Preclass Learning Objectives:**

Average Value Formula.

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